

ACQUISITION AND SUPPLEMENTAL DATA SHEET		
TO: LEKAB	SOLICITATION NUMBER:	DATE: 28 March 2003
FROM: LEADD	NSN: 6625NCC625425	Page 2 of 8 1 7
PREPARED BY (OFFICE, EXTENSION) LEEC / 6-7663		SPECIFICATION: PD03LEEC105
NOMENCLATURE: 9kHz – 1.2GHz Signal Generator		

### INSTRUCTIONS FOR SUBMITTAL OF TECHNICAL INFORMATION

1. The offeror shall submit, for Government evaluation, a Technical Information Package for the Signal Generator to include:

Test reports or other data, in contractor format, substantiating that the model number/part number offered conforms to all salient characteristics described in the Purchase Description (PD) or Commercial Item Description (CID), hereinafter referred to as the Technical Documentation. See paragraph 7 below for test report, or data, content requirements.

2. If the offered equipment does not fully meet the requirements of the Technical Documentation, and the offeror proposes to modify the equipment to fully meet the requirements; the offeror shall:

- a. Submit a clear description of the modification with their proposal and test data indicating the conformance to the Technical Documentation.

- b. Clearly mark any descriptive material (e.g., operation and maintenance manuals) to reflect the modification.

- c. Propose a unique model and/or part number, which will be applicable to the production equipment.

3. A major modification is a modification that will have significant effect upon the salient performance characteristics of the equipment. A minor modification is a modification that will not affect the salient performance characteristics of the equipment. The government alone will determine whether a modification is major or minor. Any equipment described by the Technical Information submitted that requires a major modification in order to comply with the Technical Documentation shall be declared unacceptable and the offeror shall be determined non-responsive. Minor modifications approved by the Government become requirements under any resultant contract.

The offeror shall not include in the equipment, described by the Technical Information, any feature(s) and associated component(s), not required by the specification, which affect(s) the salient performance characteristics of the equipment described by the Technical Information unless the offeror intends to include such feature(s) and associated component(s) in the production equipment. All such feature(s) and associated component(s) included in the equipment, described by the Technical Information Package, shall be included in the production equipment.

4. All Production equipment shall conform in all respects to the equipment described by the Technical Documentation (model and/or part number), as approved by the Government. If

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the approved equipment has a commercial identification (model and/or part number) different from the equipment described by the Technical Information Package (model and/or part number) the said identification shall be modified in the production equipment.

5. In the event the Government finds any offeror's Technical Information Package unacceptable, the Contracting Officer shall notify the offeror(s) in writing of the reasons their Technical Information Package has been determined unacceptable.

6. The approval of a Technical Information Package will not constitute a waiver for any of the requirements for a Signal Generator, PD03LEEC105.

7. Technical report, or data, content requirements are invoked either by the MIL-PRF-28800 Class designated by the Technical Documentation or by the Technical Documentation. The Technical Documentation and/or MIL-PRF-28800 provides the test parameters. The minimum Technical Information Package shall consist of the items described hereinafter, when invoked by the Technical Documentation and/or MIL-PRF-28800.

Performance testing data shall be provided which substantiates that the product offered meets the requirements of the Technical Documentation and/or MIL-PRF-28800. Data from production testing or individual test data satisfies this requirement. Correlated production data is preferred but is not required.

A certificate indicating that the test equipment utilized in the performance testing has NIST traceability shall be provided.

Data substantiating the following environmental requirements shall be provided when invoked by the Technical Documentation and/or MIL-PRF-28800.

- Temperature and Humidity
- Temperature, not operating
- Temperature, operating
- Relative humidity
- Altitude, not operating
- Altitude, operating
- Vibration Random
- Vibration, Sinusoidal
- Bounce, loose cargo
- Shock, functional
- Shock, mechanical

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Transit Drop  
 Bench handling  
 Shock, high impact  
 Water resistance  
 Watertight  
 Splashproof  
 Dripproof  
 Fungus resistance  
 Salt fog  
 Salt exposure, enclosure  
 Salt exposure, structural parts  
 Explosive atmosphere  
 Dust resistance  
 Magnetic environment  
 Solar radiation

Data showing compliance with the Technical Documentation and/or MIL-PRF-28800 for Electromagnetic Compatibility (EMC) shall be provided. Test methods and procedures are designated in MIL-PRF-28800.

Actual reliability or computed reliability data shall be furnished in accordance with the Technical Documentation and/or MIL-PRF-28800.

Data substantiating the following requirements shall be provided when invoked by the Technical Documentation and/or MIL-PRF-28800.

Electrical power  
 Input power consumption  
 Voltage and frequency variation  
 Voltage-transient  
 Frequency-transient  
 Power source interruption  
 Acoustic noise  
 Dimensions  
 Weight  
 Mechanical stability  
 Equipment emanations

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It is recommended that the data be collated in the same sequence as above. Data format may be chosen by the offeror. Additional information may be provided such as annual reports, data sheets or other descriptive data if the offeror so desires, but will not be used in the evaluation process.

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## INSTRUCTIONS FOR SUBMITTAL OF TECHNICAL MANUALS

1. The offeror shall submit, for Government evaluation, two copies of the commercial technical manuals for the proposed Signal Generator. The manuals shall be reviewed for conformance with the content requirements identified below in paragraphs 1.1 through 1.4.

1.1 Style and format, technical manuals. All text shall be legible. A cover page shall include equipment name, model number, manual issue date, manufacturer's identification name and address, revision designator, and serial numbers for the equipment covered. A table of contents shall be provided.

1.2 Content, technical manuals. The contents of the technical manuals shall include sections addressing safety, general information, use and installation, maintenance and service, storage, and symbols. The content of the sections shall conform to the description provided in paragraphs 1.2.1 through 1.2.4.6.

1.2.1 Safety, technical manual section. The manual shall contain warnings, cautions and notes to prevent injury to personnel and damage to equipment. The warnings shall contain safety precautions where hazards such as high voltage, ESD, and RF radiation may be present during installation, operation, or maintenance.

1.2.2 General, technical manual section. The manual shall contain the following: purpose and functions, capabilities, performance characteristics, description (model number, dimensions, and weight), power information, environmental, list of items furnished, list of items required for operation and maintenance but not supplied, tools and test equipment, warranty information, and shipping and handling precautions.

1.2.3 Use and installation, technical manual section. This section shall provide any instructions that may be required for unpacking, assembly, and procedures to pursue in the case of the equipment found damaged during shipping. This section shall also minimally contain information on the following: operating instructions (illustrations and explanations of the uses and functions of all controls and indicators), initial adjustments and control settings, start up procedures, system reset procedures, ventilation clearances required, illustrations of equipment connections to external units under test, external memory storage device instructions and precautions, and reprogramming of reprogrammable memory if required shall: include program setup, check-out and illustrations.

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1.2.4 Maintenance and servicing, technical manual section. The level of maintenance philosophy shall be to the module level, defined as level 2 in MIL-PRF-28800. Information shall be provided for performance verification to include: instructions to verify equipment is performing accurate measurements, a list of test equipment required to perform the verification tests, step-by-step instructions for test connections, signal levels expected, calibration information, and self-test routines.

1.2.4.1. Servicing for module level maintenance. Information shall be provided for module level troubleshooting, disassembly, reassembly, and test. The manual shall include step-by-step instructions for troubleshooting and fault isolation, signal levels expected, list of required test equipment and connection diagrams, and block and schematic diagrams. Parts lists shall be shown on illustrations or a separate listing that includes an index or reference to other illustrations. Parts lists shall include part number and generic description. Sequential instructions for disassembly, repair, replacement, and reassembly shall be provided. As required the instructions will define localizing a defective circuit card or component. Test data sheets will be included.

1.2.4.2 Battery information. If batteries are used in the equipment, instructions shall be included that describe the procedure for battery replacement – part number and description. If lithium batteries (as authorized by the procuring activity) are used, a warning label shall be affixed to the outside of the unit, and proper disposal procedures shall be contained in the manual.

1.2.4.3 Cleaning maintenance. Cleaning information covering intervals, types of solvents, and materials used shall be listed in the maintenance and servicing section of the technical manual.

1.2.4.4 Warranty returns. The maintenance and servicing section of the technical manual shall contain instructions on equipment return procedures for equipment failures occurring during the period the manufacturer's warranty is in effect.

1.2.4.5 Part replacement information. Common commercial parts such as hardware items shall be identified by part number and description to facilitate substitutions of parts from other sources.

1.2.4.6 Equipment repackaging instructions. Manuals shall contain instructions for repackaging of unit or assembly including electrostatic sensitive devices information.

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1.3 Storage. The technical manual shall provide storage information to include environmental conditions, battery removal if required, and any specific requirements.

1.4 Symbols. All symbols used in the technical manual shall be standard or common to the trade. Where nonstandard symbols are used, explanations shall be provided.

1.5 Interactive Electronic Technical Manual (IETM). If the offeror proposes an IETM, the IETM shall meet the requirements of the current revision of: MIL-PRF-87268, Manuals, Interactive Electronic Technical-General Content, Style, Format, and User-Interaction Requirements.

2. The manual shall include copyright release or rights in data statements, in accordance with the FAR and applicable FAR supplements.

3. If the offeror's technical manuals do not fully meet the requirements of paragraphs 1.1 through paragraph 2 above, and the offeror proposes to modify the technical manuals to fully meet the requirements, the offeror shall submit a clear description of the modification with their proposal indicating which requirements are met without modification and how the remaining requirements will be met.

4. In the event the Government finds any offeror's technical manuals unacceptable, the Contracting Officer shall notify the offeror(s) in writing of the reasons their technical manuals have been determined unacceptable.

5. The approval of technical manuals will not constitute a waiver for any of the requirements of a Signal Generator, PDLEEC105.